# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 07/12/2016 09:38 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 07/06/2016 09:46 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123957 | -1 | 2.76 | 123892 | 2.71 |
| Blue | F | SSC | 125000 | 122759 | -2 | 5.05 | 123387 | 4.86 |
| Blue | E | FITC | 21137 | 20765 | -2 | 3.55 | 918 | 9.88 |
| Blue | D | PE | 25913 | 25023 | -4 | 3.29 | 893 | 9.29 |
| Blue | B | PerCP-Cy5-5 | 46728 | 46352 | -1 | 4.17 | 1322 | 15.91 |
| Blue | A | PE-Cy7 | 40457 | 40134 | -1 | 5.48 | 626 | 32.36 |
| Red | C | APC | 50567 | 50207 | -1 | 2.89 | 2908 | 9.13 |
| Red | A | APC-Cy7 | 52095 | 50948 | -3 | 2.90 | 1052 | 11.18 |
| Violet | B | V450 | 13425 | 12981 | -4 | 3.28 | 628 | 8.70 |
| Violet | A | V500 | 55630 | 54729 | -2 | 3.02 | 2436 | 6.08 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19222 | 3.95 | 599 | 1 | N/A | N/A | Pass |
| Blue | F | SSC | 60926 | 3.88 | 519 | 1 | N/A | N/A | Pass |
| Blue | E | FITC | 105 | 36.61 | 524 | -1 | 0.0247 | 184 | Pass |
| Blue | D | PE | 196 | 26.51 | 517 | -2 | 0.1974 | 228 | Pass |
| Blue | B | PerCP-Cy5-5 | 210 | 41.18 | 613 | 0 | 0.0120 | 91 | Pass |
| Blue | A | PE-Cy7 | 70 | 107.08 | 664 | 0 | 0.0144 | 16 | Pass |
| Red | C | APC | 336 | 26.46 | 589 | -2 | 0.0222 | 58 | Pass |
| Red | A | APC-Cy7 | 115 | 40.70 | 568 | -3 | 0.0057 | 1749 | Pass |
| Violet | B | V450 | 75 | 41.90 | 458 | -5 | 0.0448 | 1796 | Pass |
| Violet | A | V500 | 177 | 23.23 | 490 | -4 | 0.0139 | 513 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.36 | -31.12 | 0.82 |
| Blue | 20.35 | 16.27 - 24.41 | 1.24 | 0.99 - 1.49 | 0.00 | 0.00 | 1.30 |
| Red | 15.73 | 13.28 - 19.92 | N/A | N/A | 31.78 | 31.90 | 1.13 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 10183

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments